

Recovery Plan Action Status

Plan Name: Recovery Plan for *Camissonia benitensis* (San Benito Evening Primrose)

Plan Status: Final

Plan Date: 21-Sep-06

Lead Agency: USFWS

Lead Office: Ventura Fish And Wildlife Office

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
San Benito evening-primrose (<i>Camissonia benitensis</i>)	1	1.1.1	Design and implement signing plan for open and closed areas for OHV use.	Ongoing Current	FY 2006		U.S. Bureau of Land Management	Management: Land Use	Labor type not yet selected	BLM has implemented signing and closures after the 2006 amendment to the Clear Creek Management Plan
San Benito evening-primrose (<i>Camissonia benitensis</i>)	1	1.1.2	Maintain signs.	Ongoing Current	FY 2006		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	BLM has implemented signing and closures after the 2006 amendment to the Clear Creek Management Plan
San Benito evening-primrose (<i>Camissonia benitensis</i>)	1	1.1.3	Close selected terrace sites to camping.	Not Started			U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	1. As of May 1, 2008, the Clear Creek Mangement Area and some adjacent lands have been closed temporarily due to asbestos presence. A new CCMA management plan is under development, that will permanently change the land use of the CCMA, most likely excluding OHV use within the CCMA. The CCMA remains closed due to the EPA closure.
San Benito evening-primrose (<i>Camissonia benitensis</i>)	1	1.1.4	Continue barrier construction at <i>Camissonia benitensis</i> habitat.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	BLM
San Benito evening-primrose (<i>Camissonia benitensis</i>)	1	1.1.5.1	Ensure law enforcement staff is adequate.	Partially Complete	FY 2006		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	BLM

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San Benito evening-primrose (Camissonia benitensis)	1	1.1.5.2	Develop enforcement procedures.	Partially Complete	FY 2006		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	BLM
San Benito evening-primrose (Camissonia benitensis)	1	1.1.5.3	If public compliance is lacking, develop contingency measures.	Unknown	FY 2006		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	compliance monitoring takes place; incidents of non-compliance have decreased, though it is unknown whether there is contingency plan if incidents of non-compliance should increase.
San Benito evening-primrose (Camissonia benitensis)	1	1.2	Establish and maintain a weed control program.	Planned	FY 2006		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	The Bureau's 2006 CCMA plan amendment includes the development and implementation of an invasive weed management program, but it is unknown if this has been implemented; however, restoration and monitoring has occurred.
San Benito evening-primrose (Camissonia benitensis)	3	1.3.1	Develop informational materials for private landowners.	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	3	1.3.2	Determine land-use goals for private lands within Camissonia benitensis habitat.	Not Started			U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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San Benito evening-primrose (Camissonia benitensis)	3	1.3.3	Survey private parcels to identify threats to Camissonia benitensis populations.	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Private lands around the CCMA are difficult to access. Ryan O'Dell (BLM botanist) is investigating ways to gain access; however, the purpose now is not to find threats, but finding new populations, as a new type of habitat that supports the species has been discovered. ----- As of 8/5/2011, BLM botanist Ryan O'Dell has gained access to a number of private lands in suitable habitat for the species and more new populations have been found. Final results of the 2011 surveys are not yet in.
San Benito evening-primrose (Camissonia benitensis)	3	1.3.4	Develop and implement management plans for private lands with Camissonia benitensis.	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	2.1	Use interagency technical expertise to develop watershed management strategy.	Not Started			California State Water Resources Control Board, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	2.2	Continue to identify and prioritize sites for restoration of Camissonia benitensis habitat.	Ongoing Current	FY 1995 - FY 1999		California State Water Resources Control Board, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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San Benito evening-primrose (Camissonia benitensis)	2	2.3	Continue to monitor effectiveness of habitat management.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	2.3.1	Use photography to monitor landscape-scale changes over time.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	2.3.2	Compare photography to determine user compliance.	Unknown			U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	2.3.3	Monitor soil loss from the 5 watersheds in the CCMA.	Not Started			California State Water Resources Control Board, U.S. Bureau of Land Management, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	3.1	Use of technical specialists to assist in implementation of monitoring and research needs for Camissonia benitensis.	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	<p>VFWO has recently submitted a proposal for funding for investigation of the phylogenetic relationships of Camissonia benitensis populations to each other and other spp in the genus. We hope to gain funding to put towards research for information regarding the phylogenetics of the species, including the new populations.</p> <p>-----</p> <p>As of 8/5/2011, this project was funded and is underway in cooperation with Dr. Justen Whittall of Santa Clara University.</p>

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San Benito evening-primrose (Camissonia benitensis)	2	3.2.1	Conduct annual population surveys.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	Surveys in 2010 have resulted in the discovery of over 100 new populations of the species on a new type of habitat. Ryan O'Dell (BLM botanist) is continuing to survey and find new populations.
San Benito evening-primrose (Camissonia benitensis)	2	3.2.2	Monitor woody vegetation on terrace sites.	Unknown			University of California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	3.2.3	Revise photo monitoring point protocol.	Unknown			U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	3.3.1	Continue seedbank research.	Unknown	Prior to FY 1995		University of California, U.S. Bureau of Land Management, Center for Plant Conservation	Work type not yet selected	Labor type not yet selected	Taylor, D., R. Palmer, and W. Davilla. 1989. Camissonia benitensis life history studies, 1988 progress report. BioSystems Analysis, Inc. May 1989. 37 pp.
San Benito evening-primrose (Camissonia benitensis)	2	3.3.2	Continue population introduction research.	Ongoing Current	FY 2009		University of California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Research: Reintroduction	Labor type not yet selected	BLM and UC Davis
San Benito evening-primrose (Camissonia benitensis)	2	3.3.3	Conduct research on terrace replacement rates.	Unknown			University of California, U.S. Bureau of Land Management, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	3.3.4	Construct population viability models.	Partially Complete	FY 2008		University of California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	some modeling has been done for 15 core sites for which there are continuous population data since 1989
San Benito evening-primrose (Camissonia benitensis)	2	3.3.5	Conduct fire research.	Not Started			University of California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	

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San Benito evening-primrose (Camissonia benitensis)	2	3.4	Search for additional occurrences.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	2	3.5	Revise management based on monitoring and research results.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	3	4	Establish ex situ seed collection.	Not Started	FY 2009		U.S. Fish and Wildlife Service, Center for Plant Conservation	Work type not yet selected	Labor type not yet selected	an ex-situ study was conducted, examining the affects of rising levels of soil amendment from organic matter sources, though a seed collection has not been established
San Benito evening-primrose (Camissonia benitensis)	3	5.1	Install and maintain interpretive signs, and implement other interpretive activities.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
San Benito evening-primrose (Camissonia benitensis)	3	5.2	Work with OHV and other user groups to conserve habitat.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	The CCMA management plan that is currently in development may result in these lands being closed to OHV use permanently. The OHV community and other interested parties have provided comments on the new draft plan and EIR.